IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Kenneth Rhodes et al.

Serial No.: N/A

Filed: Herewith

For: POTASSIUM CHANNEL INTERACTORS AND

USES THEREFOR

Attorney Docket No.: MNI-070CP4

Assistant Commissioner for Patents Box Sequence Washington, D.C. 20231

TRANSMITTAL LETTER FOR DISKETTE CONTAINING SEQUENCE LISTING

Dear Sir:

Enclosed is a diskette which contains a computer readable form of the Sequence Listing for the patent application filed herewith. The Sequence Listing complies with the requirements of 37 C.F.R. § 1.821. The material on this diskette is identical in substance to the sequence listing appearing on pages 1-92 of the Sequence Listing which is submitted herewith, as required by 37 C.F.R. § 1.821(f). The computer readable form of the Sequence Listing contained on the enclosed diskette is understood to comply with the requirements of § 1.824(d).

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Thereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commission for Patents. Box Sequence. Washington, D.C. 20231 Signature
Nelson F. Barros
Please Print Name of Person Signing

LAHIVE & COCKFIELD, LLP

Attorneys at Law

Maria C. Laccotripe, Ph.D.

Agent for Applicants

Limited Recognition Under 37 C.F.R. §10.9(b)

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-:213> Homo sapiens

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Arg Pro Ser Lys Asp Lys Ile Glu Asp Glu Leu Glu Met Thr Met Val 20 25 30

Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe 35 40 45

Thr Ly: Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys 50 55 60

Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln 65 70 75 80

Phe Pho Pro His Gly Asp Ala Sor Thr Tyr Ala His Tyr Log Pho Ast.

Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val

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cag aaa atg gat aaa Gln Lys Met Asp Lys 210				
cto gag too tgt bag Leu Glu Ser Cys Gln 225				
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Gin Gly Glu Ser Glu Giy Leu Gin Thr Leu Gly !le Val Val Leu 20 25 30

Cys Ser Ser Leu Lys Leu His Tyr Leu Gly Leu Ile Asp Leu Ser 35 40 45

Asp Asp Lys Ile Glu Asp Asp Leu Glu Met Thr Met val Cys His Arg 50 55 60

Pro Glu Gly Leu Glu Glr. Leu Glu Ala 31n Thr Asn Phe Thr Lys Arg 65 70 75 80

Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly 85 90 95

Val Val Asn Glu Giu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro 100 105 110

His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp 115 120 125

Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu 130 135 140

Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe 145 150 155 160

Ash Leu Tyr Asp Ile Ash Lys Asp Gly Tyr Ile Ash Lys Glu Met 165 170 175

Met Aug 11e Vai typ Ala 11e Tyr Asp Met Met 31y 1ys Tyr Thr Tyr 180 - 18

Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Fhe Fhe 195 200 205

Gln Dys Met Asp Dys Ash Dys Asp Gly Ile Val Thr Leu Asp Glo Fhe 210 220

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Thr Lys Ar; ill hou Bin Val hou Tyr Ar; dly Pho Lys Ash Blu Cys
Pro Ser Gly Val Val Ash Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln
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Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val 105

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Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val 65 70 75 80

Asn Glu Glu Thr Phe Lys Glr. He Tyr Ala Gln Phe Phe Pro His Gly
85 90 95

Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr 100 110

Sin Thr Gly Ser Mal Typ Fhe Glo Ang Fhe Mal Thr Ala Leu der 11e 115 - 120 - 125

Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu 130 140

Tyr Asp ilo Asn Lys Asp Gly Tyr ile Asn Lys Glu Glu Mot Met Asp

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Jin Val Leu Tyr Arg Gly Ene Lys Ash Glu dys Ero Ser Jly Val Val
-85 - 75 - 80
Ash Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly
Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr
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Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile
Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu
Tyr Asp Ile Asr. Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met Met Asp
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                                        155
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			att gad ttg tog gat — 45 Ile Asp Leu Ser Asp 35
			gtt tge eat egg eet - 50 Val Cys His Arg Pro - 50
	Gln Leu Glu Al		tto acc mag aga gaa 54 Phe Thr Lys Arg Glu 65
			tge eer agt ggt gtg - 59 Cys Pro Ser Gly Val -30
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			gtg act get etg teg 740 Val Thr Ala Leu Ser 130
		s Glu Lys Leu	aag tgg acg ttt aat 78 Lys Trp Thr Phe Asn 145
			asa gad dar atg atr - 47 Lys Slu Glu Met Met 181
			ada tac acc tat ctt 88 Lys Tyr Thr Tyr Leu 180
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			ggg Gly													329
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			cca Pro													425
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			ctg Leu		_	_	-	-					-	-	-	521
			gto Val													569
			gag Glu 125													617
			tcc Ser													665
			gat Asp													723
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Glu Asr. Ile Met Arg Ser Met Gln Leu Phe Asp Asr. Val Ile 260 265 270

Asp Gly Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys Gln Lys Asp

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<211> 1247

<212> DNA

<213> Rattus sp.

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				too Ser										241
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				aac Asn										337
		_	-	tat Tyr		_						_		385
				ctc Leu 135			-		-				-	433
				gac Asp										481
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Ala Ser Leu Arg Pro His Arg Pro Arg Pro Leu Asp Pro Asp Ser Val 50 55 60

Glu Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu 65 70 75 80

Glu Gln Leu Gln Glu Gln Thr Lys Phe Thr Arg Arg Glu Leu Gln Val 85 90 95

Leu Tyr Arg Gly Phe Lys Ash Glu Cys Pro Ser Gly 11e Val Ash Glu 100 100 110

Glu Ash Phe Lys Gln He Tur Ser Gln Phe Phe Fr - Hn Hy Asp Jer 115 - 120 - 125

Ser Asn Tyr Ala Thr Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp 130 135 140

Gly Ser Val Ser Enc Glu Asp Ehe Val Ala Gly Leu Ser Val Ile Leu 145

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<213 Mus musculus

<400.18

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Asp Gly Ser Tyr Asp Gln Leu Thr Gly His Pro Pro Gly Pro Ser Lys 20 25 30

Lys Ala Leu Lys Gin Arg Phe Leu Lys Leu Leu Pro Cys Cys Gly Pro 35 40 45

Gln Ala Leu Pro Ser Val Ser Glu Thr Leu Ala Ala Pro Ala Ser Leu 50 60

Arg Pro His Arg Pro Arg Pro Leu Asp Pro Asp Ser Val Glu Asp Glu 65 70 75 75

The Giu Leo Ver Thr Mal Cys His Arr Fr. Blu Fly Leu Blu Bln 194 85 90 95

Gln Glu Gln Thr Lys Phe Thr Arg Arg Glu Leu Gln Val Leu Tyr Arg 100 106 110

Gly Phe Lys Ash Glu Cys Pro Ser Gly He Val Ash Glu Glu Ash Phe

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Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala 210 215 200	
Pro Arg Glu His Val Glu Ser Phe Phe Gln Lys Met Asp Arg Asn Lys 235 240	
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<211> 252

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+2213> Homo sapiens

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Lys Ala Leu Lys Gln Arg Phe Leu Lys Leu Leu Pro Cys Cys Gly Pro
35 40 45

Gin Ala Leu Pro Ser Val Ser Glu Asn Ser Val Asp Asp Glu Phe Glu 50 55 60

Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Gln Glu -65 70 75 80

Gin Thr Lys Phe Thr Arg Lys Glu Leu Gln Val Leu Tyr Arg Gly Phe 85 90 95

Iwa Ash Miu Cys Pro Ser Gly Ile Val Ash Glu Miu Ash Pha Lys Min 188

ILe Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Ser Thr Tyr Ala Thr 115 120 125

Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp Gly Ser Val Ser Phe 130 140

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Glu Ser Leu Ser Glu Ser Arg Asp Leu Asp Gly Ser Tyr Asp Gln Leu
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Thr Gly His Pro Pro Gly Pro Ser Lys Lys Ala Leu Lys Gln Arg Phe
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Amp Gly Ser Tyr Amp Gln Leu Thr Gly His Pro Pro Gly Pro Ser Lys 20 25 30

Lys Ala Leu Lys Gln Arg Phe Leu Lys Leu Leu Pro Cys Cys Gly Pro 35 40 45

G.n Ala Leu Pro Ser Val Ser Glu Asn Ser Val Glu Asp Glu Phe Glu
50 60

Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Gln Glu ± 65 75 80

Gun Thr Lys Phe Thr Arg Arg Glu Lou Gln Val Lou Tyr Arg Gly Phe 85 96 95

Lys Asn Gla Cys Pro Sor Gly Ile Val Ach Gla Gla Gla Ash Ehe Lys Gli. 100 105 110

Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Ser Ash Tyr Ala Thr 115 120 125

The Leu Phe Ash Ala The Asp Thr Ash His Asp Gly Ser Val Ser Phe

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Rhodes, Kenneth et al. 31 ÷ --Bly Tye Tyr Thr Tyr Er: Ala Leu Arg Miz Blo Ala Er Arg the His Wal Glu der the the Jin Lys Med Asp Ary Ash Lys Asp Hiy Mal Mal Thr Ile Glu Glu Phe Ile Glu Ser Cys Gln Gln Asp Glu Asn lle Met Arg Ser Met Gln Leu Phe Asp Asn Val lle 245 42105 23 1211 - 1859 42120 DNA 0213: Homo sapiens -12201-4221: CDS <:222: (207)..(866)</pre> +:400:- 23 stcarctget gectagtgtt ecctetectg etcsaggade teegggtaga ecteagadee 60 ogggrecatt occagaetea genteageee ggastteese ageocegaea geacagtagg 120 buyorayggg gegeegtgtg agegeestat coeggesase eggegeess tessaeggee 180 ogggegggag nggggggggggggagatg atg ogg ggd dag ggd ogd aag gag agt Met Arg Gly Gln Gly Arg Lys Glu Ser ttg tod gat tod oga gad otg gad ggd tod tab gad dag otd adg gad Leu Ser Asp Ser Arg Asp Leu Asp Gly Ser Tyr Asp Gln Leu Thr Asp 10 age gtg gae gat gaa tit gaa tig tee ace gtg tgt cae egg eet gag Ser Val Asp Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu gyt sty gag day otg sag gag saa ass aaa tis asg sys aag gag tty Gly led Gla Gln Led Gln Gla Gln Thr Lys Phe Thr Arg Lys Gla Lea 425 cay give cig tak egg ggo tio aay aak gaa igi coo ago gga att gic Gin Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val 60 65 aut gag gag aau tto aag bag att tad too bag tto tth not haa dha 473 နှာတွေ ရှိရှိရှိ ရှိသည် နှာတော်သော ကောက် ရွှာသို့ ကော

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Met Arg Gly Glr Gly Arg Lys Glu Ser Leu Ser Asp Ser Arg Asp Leu 1 5 15

Asp Gly Ser Tyr Asp Gln Leu Thr Asp Ser Val Asp Asp Glu Fhe Glu 20 25 30

Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Gln Glu 35 40 45

Gln Thr Lys Phe Thr Arg Lys Glu Leu Gln Val Leu Tyr Arg Gly Phe 50 60

Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Phe Lys Gin
65 70 75 80

Ile Tyr Ser Gin Phe Phe Pro Gln Gly Asp Ser Ser Thr Tyr Ala Thr 85 90 95

Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp Gly Ser Val Ser Phe 100 105 110

Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Val Asp 115 120 125

Asp Arg Leu Asn Trp Ala Phe Asn Leu Tyr Asp Leu Asn Lys Asp Gly 130 135 140

Cys Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ser Ile Tyr Asp 145 153 160

Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala Pro Arg 165 170 175

Glu His Val Glu Ser Phe Phe Gln Lys Met Asp Arg Asn Lys Asp Gly 180 180 190

Val Val Thr II- Glo Glo The IIe Glo Ser Cys Gln Lys Asp Glo Ash

Ile Met Arg Ser Met Gin Leu Phe Asp Asn Val Ile
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							att Ile									570
							ttt Phe									618
							gag Glu 145									666
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							tgt Cys									762
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<211> 252

<212> PRT

<213> Simian sp.

+4 70 + 116

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Asp Gly Ser Tyr Asp Gln Leu Thr Gly His Fro Fro Gly Pro Ser Lys

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The Tyr Jer Jin She She Fr. Jin Sly Asp Der Der Ash Tyr Ala Thr 115 Pho Lou Pho Ash Ala Pho Asp Thr Ash His Asp Gly Ser Val Ser Pho Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Ile Asp Asp Arg Leu Ser Trp Ala Phe Asn Leu Tyr Asp Leu Asn Lys Asp Gly 165 Cys Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ser Ile Tyr Asp 130 Mot Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala Pro Arg Glu His Val Glu Ser Phe Phe Gln Lys Met Asp Arg Asn Lys Asp Gly 215 220 Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys Gln Gln Asp Glu Asr. Ile Met Arg Ser Met Gln Leu Ser Pro Leu Leu Asn 245 <!:10> 29 <.:11: 1904 HULLIZE DNA Rattus sp. <112.00 · <!:21> CDS <2220 (1)..(675) <400> 29 and was two dot ode add two bdd add bod this ddd can doe dit. Met Asn His Cys Pro Arg Arg Cys Arg Ser Pro Leu Gly Glm Ala Ala oma for or other capiting stallar orgpiting objiting obligating againgt a Arg Ser Leu Tyr Gln Leu Val Thr Gly Ser Leu Ser Pro Asp Ser Val gag gat gag tit gaa tia too ang gig igt can oga not gag ogn olg 144 Glu Asp Glu Phe Glu Lea Ser Thr Val Cys His Arg Fro Glu Ely Lea

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H212 - FET

H213 · Rattus sp.

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Arg Jer Leu Tyr Sin Lou Val Thr Gly Ser Leu Ser Pro Asp Ser Val 25 30

Glu Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu 35 40 45

Glu Gln Leu Glr. Glu Gin Thr Lys Phe Thr Arg Arg Glu Leu Gln Val 50 55 60

Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu 65 70 75 80

Glu Ash The Lys 31: Tie Tyr Ser 31: Phe The Pro Gin Gly Asp Ser 85 90

Ser Ash Tyr Ale Thr Fhe Lea Fhe Ach Ala Fhe Asp Thr Ach His Asp 100 105 110

Gly Ser Val Ser Pho Glu Asp Pho Val Ala Gly Leu Ser Val Ilo Leu 115 120 125

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	gac Asp															96
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Ala Ile His Phe Glu Asp Phe Val Val Gly Lou Ser Ile Leu Leu Arg
145 - 150 - 155 - 160
 Gly Thr Val His Glu Lys Leu Lys Trp Ala Phe Asn Leu Tyr Asp Ile
Ash Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met Leu Ala Ile Met Lys
                                               185
 Sor Ile Tyr Asp Met Met Gly Arg His Thr Tyr Pro Ile Leu Arg Glu
                                                                           200 205
 Asp Ala Pro Ala Glu His Val Glu Arg Phe Phe Glu Lys Met Asp Arg
Asn Glr. Asp Gly Val Val Thr Ile Glu Glu Phe Leu Glu Ala Cys Gln
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His Glu Lys Leu Lys Trp Ala Phe Asn Leu Tyr Asp Ile Asn Lys Asp
Gly Tyr Ile Thr Lys Glu Glu Met Leu Ala Ile Met Lys Ser Ile Tyr
Asp Met Met Gly Arg His Thr Tyr Pro Ile Leu Arg Glu Asp Ala Pro
Lou Glu His Val Glu Arg Phe Phe Gln Lys Met Asp Arg Asn Gln Asp
                      70
65
Gly Val Val Thr Ile Asp Glu Phe Leu Glu Thr Cys Gln Lys Asp Glu
                  85
                                        90
Asn Ile Met Ser Ser Met Gln Leu Phe Glu Asn Val Ile
             100
                                   105
<210> 35
+211> 2644
MATAY BNA
+213> Mus musculus
<221> CDS
\langle 222 \rangle (49) \dots (816)
<400> 35
inggang maa layng galaga in aungang pininnin nau nau nagalah pinag lagg^{-6.0}
                                                         Met Gln Ara
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				aca Thr						393
				ttc Phe						441
				ttt Phe						489
				Gly ggg						537
				gcc Ala 170						585
				gag Glu						633
gac Asp				acc Thr						691
				 Phe						٠.
				gaa Glu						23.17.13

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Met Bln Ard Thr Lys Bld All Val Lys Ala der Asp Bly Ash Leu Leu 1 1 15 15

Gly Asp Pro Gly Arg Ile Pro Leu Ser Lys Arg Glu Ser Ile Lys Trp 20 25

Gln Arg Pro Arg Phe Thr Arg Gln Ala Leu Met Arg Cys Cys Leu Ile 35 40 45

Lys Trp Ile Leu Ser Ser Ala Ala Pro Gln Gly Ser Asp Ser Ser Asp 50 60

Ser Glu Leu Glu Leu Ser Thr Val Arg His Gln Pro Glu Gly Leu Asp 65 70 75 80

Gin Leu Gln Ala Gln Thr Lys Phe Thr Lys Lys Glu Leu Gln Ser Leu 85 90 95

Tyr Arg Gly Phe Lys Asn Glu Cys Pro Thr Gly Leu Val Asp Glu Asp 100 - 100

Thr Phe Lys Leu Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ala Thr 115 120 125

Thr Tyr Ala His Phe Leu Phe Ash Ala Phe Asp Ala Asp Gly Ash Gly 130 135 140

Ala Ile His Phe Glu Asp Phe Val Val Gly Leu Ser Ile Leu Leu Arg 145 150 155 160

Gly Thr Val His Glu Lys Leu Lys Trp Ala Phe Asn Leu Tyr Asp Ile 165 170 175

Asn Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Ala Ile Met Lys 180 185 190

Ser Ile Tyr Asp Met Met Gly Arg His Thr Tyr Fro Ile Leu Arg Glu 195 200 205

Asp Ala Fro Lea Gla His Mal Gla Arg The The Gli Lys Met Asp Arg 210 - 215 - 227

Asn Gln Asp Gly Val Val Thr He Asp Glu Pho Leu Glu Thr Cys Gln 225 230 235

Lys Asp Glu Ash Ile Met Ash Ser Met Glin Leu Phe Glin Ash Val Ile 245 - 250 - 255

Substantible 480, nony amin' asia -1400 - 37 ोबर प्रेष् पुरुष् प्रवास स्वृत्त बहर राष्ट्र युक्त त्राय प्रवास प्राप्त प्रवास प्रवास होता स्वृत्त राजर स्वत्य His Glu Val Glu der lie Ser Ala Gln Leu Glu Glu Ala Ser Ser Thr ggo ggt tto otg tap got dag aab agd abb aag bgb agb att aaa gag Gly Gly Phe Leu Tyr Ala Gln Asn Ser Thr Lys Arg Ser Ite Lys Glu egg ate atg aag ate tig see tgo toa get god aaa acg tog tot sat 144 Arg Leu Met Lys Leu Leu Pro Cys Ser Ala Ala Lys Thr Ser Ser Pro get att caa aac age gtg gaa gat gaa etg gag atg gee ace gte agg 192 Ala Ile Gln Asn Ser Val Glu Asp Glu Lou Clu Met Ala Thr Val Arg dat logg odd gaa god ott gag ott lotg gaa god oag age aaa ttt add 240 His Arg Pro Glu Ala Leu Glu Leu Leu Glu Ala Gln Ser Lys Phe Thr aag aaa gag ott bag ato ott tad aga gga tit aag aac gta aga act 288 Lys Lys Glu Leu Gln Ile Leu Tyr Arg Gly Phe Lys Asn Val Arg Thr 90 tto ttt tig ant fia oof iea bad aat tee bag agg age all gag aaa 336 Phe Phe Leu Thr Leu Pro Sor His Asn Ser Gln Arg Ser Ile Glu Lys 105 tyagaggaaa ayggggaaaa tatoocatto tatgagaago occatoatat gtatatttoa 396 tactgatect teccagatag gaatataate agtatetgtg gaetttgaat etetgtggea 456 cacccatgot ggcatactgt aattgcccat taaacaaana gtttttgaga aaaaaaaaaa 516 531 aaaaaaaaa aaaaa <.210x 38 +311 + 112 +3125 FRT

<213> Homo sapiens

<400> 38

His Glu Val Glu Ser Ile Ser Ala Gln Leu Glu Glu Ala Ser Ser Thr

the die by the termination of the termination

Ala ile Sin Ash Jer Val Bin Asp Sin Den Bin Met Ala Thr Val Ard

His Arg Fr. this Ala Dearth is Less Her Blocklin Ala Sin Ger Lym Fne Thr Lys Lys Blu Leu Bln Ile Deu Tyr Ard Bly Fhe Lys Ast Va. Ar j Thr The Pha Leu Thr Leu Fri der His Ash Ser 3lh Arg Ser Ile Glu Lys <210 > 39 <211 - 2176 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (2)..(124) <400> 39 t gaa agg the the gag ada ang gae egg ade eag gan ggg gna gng ace 49 Glu Arg Phe Phe Glu Lys Met Asp Arg Asn Gln Asp Gly Val Val Thr att gaa gag tto etg gag gee tgt eag aag gat gag aac ate atg age Ile Glu Glu Phe Leu Glu Ala Cys Gln Lys Asp Glu Asn Ile Met Ser ted atg dag etg tit gag aat gite ate taggacaeqt edaaaggagt 144 Ser Met Gin Leu Phe Glu Asn Val Ile quatoquead aqueadoted acodecaaqa aacotecatu etqecaqqaq daqeetecaa 204 gaaactttta aasaatagat ttgcaasaag tgaacagatt gotacacaca cacacacaca 264 cacacacaca cacacaca cacagocatt catotygyot gycagagygy acayayttoa 324 gggaggget gagtetgget aggggeegag tecaggagee ceagecagee etteccagge 384 cagogaggog aggotgooto tgggtgagtg gotgadagag daggtotgda ggodaddagd 444 tyntggatyt caccaagaay gygotogayt ynocotycay gymadydtoc aatotrogyt 804 grigadininas, impgrintigt tilt niarton og mittirt goldadadagtog dibogodda 564 ggotossaty gtotostosa ogtagosast stotgossas tacetatyst tetagaaage 624 cootcacoto aggacoccag agggaccago tggggggcag gggggagagg gggtaatgga 684 ggiraag bit gragotitor agaaati itt biritgggggt biraagatii bitgstacti 744tart tart to pay to the control of t in incrementation in consistent substitution and disputations and substitution in the substitution of the Arma

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<210> 40

<211> 41

<212: PRT

<213> Homo samiens

A 100 40

Glu Arg Phe Phe Glu Lys Met Asp Arg Asn Gln Asp Gly Val Val Thr

The Glu Glu Phe Leu Glu Ala Cys Gln Lys Asp Glu Asn Ile Met Ser

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Fig. 1 (1) 7 ... 10 5 3.4 3.41 thotographs, funtorizations as graph color from the problem in the same $x \in \mathbb{R}^{n}$ totimbasaga saagoimbigo sagibinotad torroggoido baabibosago aggbogobgo 120 googeeaggg ggegotgtgt dagegooeta thitggeeac coggegoood stoccaegge 180 -craggoggga goggggragob qggggob atg bugg qgb baa ggb aga aag gag agt 234Met Arg Gly Gln Gly Arg Lys Glu Ser ttg too gaa too oga gat otg gad ggd tod tat gad dag ott abg ggb Leu Ser Glu Ser Arg Asp Leu Asp Gly Ser Tyr Asp Gln Leu Thr Gly 10 cae cot oca ggg oco agt saa asa jou uly ady cag ogt tto oto aag 330 His Pro Pro Gly Pro Ser Lys Lys Ala Leu Lys Gln Arg Phe Leu Lys 378 otg otg bog tgo tgo ggg bebloaa god otg odd toa gto agt gaa aac Leu Leu Pro Cys Cys Gly Pro Gln Ala Leu Pro Ser Val Ser Glu Asn 45 426 ago gta gag gat gag tit gaa tia too aog gig tigt cac iga oot gag Ser Val Blu Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu 60 ggo otg jaa caa sto bay gaa bag acc aag tho aca ogo aga gag otg Gly Leu Glu Gln Leu Gln Glu 3ln Thr Lys Phe Thr Arg Arg Glu Leu 73 cag gto stg tac sga ggo tto aag aac gaa tgo cod agt ggg att gto Gln Val Leu Tyr Arg Gly Phe Lys Asr. Glu Cys Pro Ser Gly Ile Val 95 30 100 105 add gag gag add the adg edg att tat tet edg the thi eed edd ggd Asn Glu Glu Asn Phe Lys Gln Ile Tyr Ser Gin Phe Phe Pro Gln Gly 110 115 120 gad ton admadan tat domant this bid in least ginning gan domadan Asp Nor Jer Ash Tyr Ala Thr the Leu Bhe Ash Ala Phe Asp Thr Ash cap gat gge tot gto agt tit gag gas tit gig got ggt tig tog gig 666 His Asp Gly Ser Val Ser Phe Glu Asp Phe Val Ala Gly Leu Ser Val 714 att off ogg ggg and ata gat gat aga ofg ago fog got ffr aac that at the at decay to the at in that is done at decay to be expected by the construction

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gtggttetee accttetagt	cccactctag aa	accacatt agac	agaagg totootg	jeta 1063
tggtgettte becateesta	atotottaga tt	ttootosa gadt	ocotto toagaga	iaca 1123
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<210> 43

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4212> PRT

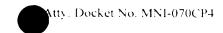
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 -12121 ENA
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 intaaccete actaaaggga cactactgtt taageteaag
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 <4000-46
                                                                                                                                                                                                                                                                              40
  taatacgast cactataggg cacctcccst coggetgtto
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 212 DNA
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 attadoccto actaaaggga gagcagcagc atggcagggt
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tgggatjoto tjovagorsa gagg atg tij ast Hig gag tijg gag toc gad — 291 Met Leu Thr Leu Glu Trp Glu Ser Glu 1 — ——————————————————————————————————
gga ofg caa aca gtg ggt att gtt gtg att ata tgt gca tot otg aag 335 Gly Leu Gin Thr Val Gly Ile Val Val Ile Ile Cys Ala Ser Leu Lys 10 25
otg ott cat tig otg gga otg att gat tit tog gaa gad agd gig gaa 387 Leu Leu His Leu Leu Gly Leu Ile Asp Phe Ser Glu Asp Ser Val Glu 30 35 40
gat gaa otg gag atg god act gtd agg dat ogg oct gag god ott gag - 435 Asp Glu Seu Glu Met Ala Thr Val Arg His Arg Pro Glu Ala Leu Glu 45 - 50 - 55
ott otg gaa ged bag age aaa tit aee aag aaa gag ett dag ato ett - 483 Leu Leu Glu Ala Gln Ser Lys Phe Thr Lys Lys Glu Leu Gln Ile Leu 60 - 65 - 70
tac aga gga ttt aag aac gaa tgc ccc agt ggt gtt gtt aat gaa gaa — 531 Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu Glu 75 — 80 — 35
and its ama gag att tas tog sag tis tit som sag ggm gms tot mem 579. Thr Phe Lys Glu Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Thr 90 95 100 105
aca tat gca cat tit org the aat gcg tit gat acg gae cad aat gga 625 Thr Tyr Ala His Phe Leu Phe Asn Ala Phe Asp Thr Asp His Asn Gly 110 115
got gtg agt tto gag gat tto ato aas ggt ott too att ttg oto ogg — 675 Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu Ser Ile Leu Leu Arg 125 — 130 — 135
ggg aca gta daa gaa aaa dto aat tgy gda tit aat otg tat gat ata (72) Gly Thr Val Gln Glu Lys Leu Ash Trp Ala Fhe Ash Leu Tyr Asp Ile 140 (15)
aat aaa gat ggo tac atc act aaa gaq gaa atg ott gat ata atg aaa 771 Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys 155 160 165
goa ata tan gas atg atg ggt aaa tgt ana tat hit gthinth asa qua - Al' Ala lle Tyr Asp Met Met Gly Lys Cys Thr Tyr Pro Val Leu Lys Glu
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Phe Thr Lys Lys Glu Leu Gin Ile Leu Tyr Arg Gly Phe Lys Asn Glu 65 70 75 80

Sys Pro Ser Gly Val Val Asn Glu Glu Thr Phe Lys Glu Ile Tyr Ser
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Gln Phe Phe Pro Gln Gly Asp Ser Thr Thr Tyr Ala His Phe Leu Phe 103 105 110

Asn Ala Phe Asp Thr Asp His Asn Gly Ala Val Ser Phe Glu Asp Phe 115 120 125

Ile Lys Gly Leu Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu 130 140

Asn Trp Ala Phe Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr 145 156 156

Lys Glu Glu Met Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly 165 170 175

Lys Cys Thr Tyr Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val 180 185 190

Glu Thr Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Val Val Thr 195 200 205

Ile Asp Glu Phe Ile Glu Ser Cys Gln Lys Asp Glu Asm Ile Met Ar; 210 220

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<210> 50

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					ggt Gly 15											339
ctg Leu					gga Gly											387
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ctt Leu																483
tac Tyr																531
acc Thr 90																579
aca Thr																627
gct Ala																675
agg Gly					aaa Lys											723
aut Asn																
qea Ala 170																<u> 919</u>
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<211> 233

<212> PRT

<213> Simian sp.

<400> 51

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Val Val Ile Ile Cys Ala Ser Leu Lys Leu His Leu Leu Gly Leu
20 25 30

Ile Asp Phe Ser Glu Asp Ser Val Glu Asp Glu Leu Glu Met Ala Thr 35 40 45

Val Arg His Arg Pro Glu Ala Leu Glu Leu Leu Glu Ala Gln Ser Lys 55 60

Fine Thr Lys Lys Glu Leu Gin Ile Leu Tyr Arg Gly Fine Lys Asin Glu -65 -70 -75 80

Cys Pro Ser Gly Val Val Asn Glu Glu Thr Phe Lys Glu Ile Tyr Ser

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Lys	Thr 210	Ala	Ser	Asn	Lys	Thr 215	Arg	Met	Phe	Thr	Asp 220	Ile	Cys	Lys	Gly	
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dtd Leu 10 gat Asp	cct Pro ctg Leu	ete Leu aag Lys	got Ala caa Glr	aac Asn gac Asp 30	acc Thr 15 cag Gln	tog Ser Cog Pro	atg a Met A 1 acc Thr ctc Leu	aac (Asn (tcc Ser agc ser	gge c Gly V geo Ala gag Glu 35	gtg g Val (ctt Leu 20 gaa Glu	gaa g Slu (5 gtc Val act Thr	ggg a Sly A Seg Pro gac Asp	aac aAsn Agaa Gluacg	gat Asp gtg Val 40	gag Glu ctg Leu 25 cgg Arg	111 159 207 255
ctc Leu 10 gat Asp gag Clu	gcagg cct Pro ctg Leu	ggo total Leu aag Lys gag	got Ala caa Gln got Ala 48	agotç aac Asn gac Asp 30 gca Alu	acc Thr 15 cag Gln ggt Gly	tog Ser Cog Pro	atg a Met I 1 acc Thr ctc Leu gsc Ala	aac o Asn (tcc Ser ager ggty 50	gge (Gly V gee Ala gag Glu 35 geg Ala	gtg classed and control of the contr	gaa q Slu C 5 gtc Val act Thr gga 1:y	ggg a Sly A Seg Pro gac Asp ggc Siy	gaa Glu acg Thr 55	gat gat Asp gtg Val 40 ter Ser	gag Glu ctg Leu 25 cgg Arg	111 159 207 255
dtd Leu 10 gat Asp gag Glu gat Asp	gcagg cct Pro ctg Leu atg Met	ggo total teu aag Lys gag Glu 60	gdt Ala caa Gln qct Ala 48 cac His	agoto Asn gac Asp 30 gca Alu tgc Cys	acc Thr 15 cag Gln ggt Gly gac Asp	tog Ser cog Pro gag	atg a Met A 1 acc Thr ctc Leu gcc Ala cag Gin 65	aac (Asn (tcc Ser agc ser ggly) 50 ctc Leu	ggo (Gly N gco Ala gag Glu 35 gog Ala tgo Cys	gtg classification and the second sec	gaa g Glu C 5 gtc Val act Thr gga cga Arg	ggg a Sly A Cog Pro gac Asp ggc Giy Val 70	gaac aAsn A gaa Glu acg Thr 55 gct Ala	gat Asp gtg Val 40 too gag Glu	gag Glu ctg Leu 25 cgg Arg	1111 1559 207 255
dtd Leu 10 gat Asp gag Glu gat Asp	geage cet Pro ctg Leu atq teg Ser tg;	ggo to be a agg Lys gag Glu Glu Ala	gdt Ala caa Gln 45 cac His	agoto Asn gac Asp 30 gca Ala tgc Cys	acc Thr 15 cag Gln ggt Gly gac Asp	tog Ser cog Pro	atg a Met A 1 acc Thr ctc Leu gcc Ala cag Gin 65	aac o Asn (toor Ser ager ggly) ctu	ggo (Gly V gco Ala gag Glu 35 gog Ala tgo Cys	gtg (Jal (Cott Leu 20) gaa Glu Cott Leu Galu Cott Cou Jal (Glu Glu Glu	gaa Glu G Slu G gtc Val act Thr gga Arg	ggg a Sly A cog Pro gac Asp ggc Tiy gtg Val 70 ggt	gaa Glu acg Thr 55 gct Ala	gat Asp gtg Val 40 tor Ser gag Glu	gag Glu ctg Leu 25 cgg Arg	111 159 207

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								act Ter							54.5
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tgatottota ggttttttgt titottttt aaaagtggtt ototatoaaa agaaagottg 16	565
acatateett accaagaact agecagattt catactgtgt teeegatate tatgtactgt 17	125
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aaaaaaaaaa aaaaaaaaaa aaaaaaa 20)51
<210> 53 <211> 407 <2120 PRT <213> Rathus or.	

<4000 63

Met Asn Gly Val Glu Gly Asn Asn Glu Leu Fro Leu Ala Asn Thr Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Thr Ser Ala Leu Val Pro Glu Asp Leu Asp Leu Lys Gln Asp Gln Pro

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- Den Ala Cer Val Ala Ala Ash Asp Ser Ash Dys Ash Dly Tys Vin Len 1 1 2 117
- Ala Gly Pro Leu Ser Pro Ala Lys Fre Lys Thr Leu Glu Ala Ser Gly 118 125
- Aia Val Gly Leu Gly Ser Gln Met Met Pro Gly Pro Lys Lys Thr Lys 130 140
- Val Met Thr Thr Lys 3ly Ala lle Ser Ala Thr Thr Gly Lys Glu Gly 145 150 185
- Glu Ala Gly Ala Ala Met Gl
n Glu Lys Lys Gly Val Gl
n Lys Glu Lys 165 $\,$ 175
- Lys Ala Ala Gly Gly Gly Lys Asp Glu Thr Arg Pro Arg Ala Pro Lys 180 180 190
- Ile Asn Asn Cys Met Asp Ser Leu Glu Ala Ile Asp Gln Glu Leu Ser 195 200 205
- Asn Val Asn Ala Gln Ala Asp Arg Ala Phe Leu Gln Leu Glu Arg Lys 210 215 220
- Phe Gly Arg Met Arg Arg Leu His Met Glr Arg Arg Ser Phe Ile Ile 225 230 235 240
- Gln Asn Ile Pro Gly Phe Trp Val Thr Ala Phe Arg Asn His Pro Gln 245 250 255
- Leu Ser Pro Mot Ile Ser Gly Gln Asp Glu Asp Met Met Arg Tyr Met 260 265 270
- Ile Asn Leu Glu Val Glu Glu Leu Lys His Pro Arg Ala Gly Cys Lys 275 280 285
- Phe Lys Phe Ile Phe Gln Ser Asn Pro Tyr Phe Arg Asn Glu Gly Leu 290 295 300
- Val Lys Glu Tyr Glu Arg Arg Ser Ser Gly Arg Val Val Ger Leu Ser 300 - 15
- The Fr | 110 Are Trp His Arg Oly Oli, Olu Fr. Oli, Ala His 110 His 325 | 330 | 335
- Arg Asn Arg Glu Gly Asn Thr Ile Pro Ser Ehe Phe Asn Trp Phe Ser 340 350
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- And And Chy Mac And Mal English And Chillin Mac Children English And Feb.

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+ 21...+ 6.4 - 2011 - 414-- 21. - 21.54 <213 * Home sapiens <220 € <221> CDS <222> (88)..(1329) <400> 54 ggggtggtgc tagaegttte gggeagaget eggeegetge ggaggaeaag gaacteteee 60 toroccaeta grotgaetro trecada arg ago ggo erg gar ggg ggo dae aag 114 Met Ser Gly Leu Asp Gly Gly Asn Lys oto oot oto god daa add gge ggd otg got gdt ddu gau da. gud Eda Leu Pro Leu Ala Gln Thr Gly Gly Leu Ala Ala Pro Asp His Ala Ser 10 gga gat beg gae bta gae bag tgo baa ggg ete egt gaa gaa abe gag 210 Gly Asp Pro Asp Leu Asp Gln Cys Gln Gly Leu Arg Glu Glu Thr Glu gog aca bag gtg atg gog aac aca ggt ggg ggc age etg gag acc gtt Ala Thr Gln Val Met Ala Asn Thr Gly Gly Gly Ser Leu Glu Thr Val 4.5 god gag ggg ggt gea tee eag gat bet gte gae tgt gge eee geg ete Ala Glu Gly Gly Ala Ser Gln Asp Pro Val Asp Cys Gly Pro Ala Leu ogo gto oca gtt god ggg agt ogd ggd ggt gda gog add aaa gdd ggg Arg Val Pro Val Ala Gly Ser Arg Gly Gl; Ala Ala Thr Lys Ala Gly 80 cag gag gat get eca ect tet acg aaa ggt etg gaa gea gee tet gee 402 Gln Glu Asp Ala Pro Pro Ser Thr Lys Gly Leu Glu Ala Ala Ser Ala 95 gon gad gitt got gan agn ago hay aas aat yyn tgi hig tii gga dag Ala Glu Ala Ala Asp Ser Ser Gln Lys Ash Gly Cys Gln Leu Gly Glu ecc cgt ggc cct gct ggg cag aag gct cta gaa gcc tgt ggc gca ggg Pro Arg Gly Pro Ala Gly Gln Lys Ala Leu Glu Ala Cys Gly Ala Gly 130 nga iti dan tot had atd ata sed ggd aag aan dee aag gaa gtg aig 546 The Type Type Arman Arman Lee Dear Arma Arman and Service Lype School Colors (Arman Arman that the first and the experience of the contract of the experience of the contract of the con

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		tt dag ott gag ogd aag eu Gln Leu Glu Arg Lys 230	
		go aga agt tto att ato rg Arg Ser Phe Ile Ile 245	
2 3		tt bga aac cac cob cag he Arg Ash His Pro Gln 260	-
Pro Met Ile Ser (ac atg ctg agg tac atg sp Met Leu Arg Tyr Met 275	
	Glu Leu Lys His P	od aga goa ggd tgd aaa ro Arg Ala Gly Cys Lys 90 - 295	
		to oga aat gag ggg ott he Arg Asn Glu Gly Leu 310	
		gg gtg gtg tot off too rg Val Val Ser Leu Ser 325	
		od dag got dat atd dad ro Gln Ala His Ile His . 340	
Ary Glu Gly Ash I		to ito ado igg bit tha he Phe Ash Trp Phy Dyn : 355	
	Phe Asp Arg Ile A	ca gag att atc aaa gga la Glu Ile Ile Lys Gly 7) - 375	
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<2115 414

<212 PRT

<213> Homo sapiens

<400> 55

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Gly Leu Ala Ala Fro Asp His Ala Ser Gly Asp Fro Asp Leu Asp Gln

Cys Gln Gly Leu Arg Glu Glu Thr Glu Ala Thr Gln Val Met Ala Asn 35 40 45

Thr Gly Gly Gly Jor Dea Gla Thr Dai Ala Gla Gly Gly Ala Jor Gln 80 60

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Ala	Ala	Val	Glu	Lys 165	Glu	Gly	Glu	Ala	Gly 170	Ala	Ala	Met	Glu	Glu 175	Lys
Lys	Val	Val	Gln 180	Lys	Glu	Lys	Lys	Val 185	Ala	Glγ	Gly	Val	Lys 190	Glu	Glu
Thr	Arg	Pro 195	Arg	Ala	Pro	lys	I.l.e 200	Asn	Asn	Суя	Met	Asp 205	Ser	Leu	Glu
Ala	Ile 210	Asp	Gln	Glu	Leu	Ser 215	Asn	Vāl	Asn	Alä	Gln 220	Ala	Asp	Arg	Alä
Phe 225	Leu	Gln	Leu	Glu	Arg 230	Lys	Phe	Gly	Arg	Met 235	Arg	Arg	leu.	His	Met 240
Gln	Arg	Arg	Ser	Phe 245	Ile	Ile	Gln	Asn	Ile 250	Pro	Gly	Phe	Trp	Val 255	Thr
Ala	Phe	Arg	Asn 260	His	Pro	Gln	Leu	Ser 265	Pro	Met	Ile	Ser	Gly 276	Glr.	Asp
Glu	Asp	Met 275	Leu	Arg	Tyr	Met	Ile 280	Asn	Leu	Glu	Val	Glu 285	Glu	Leu	Lys
His	Pro 290	Arg	Ala	Gly	СУв	Lys 295	Phe	Lys	Phe	Il€	Phe 300	Gln	Glγ.	Asr.	Pro
Tyr 305	Phe	Arg	Asn	Glu	Gly 310	L∈u	Val	Lys	Glu	Tyr 315	Glu	Arg	Arq	Ser	Ser 320
Gly	Arg	Vál	Val	Ser 325	Leu	Ser	Thr	Pro	Ile 330	Arj	Trp	His	Arg	Gly 355	Gln
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Ser	Phe	Phe 355	Asn	Trp	Fhe	Ser	Asp 360	His	Ser	Leu	Leu	Glu 365	Phe	Asp	Arg
T1	Ala 370	714	1143	* * * * *	Lys	31y 375	7.3	Desta	Trp	Fra	Asn 380	Dr.	Leq	G).r	Tyr

Fig. 4.5 . While the constant Archive the area was followed by the 4.5°

s.11s 1.4s sulls PMA sulls Battus sp.											
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k400> 56 otg aaa ggg gog Leu Lys Gly Ala 1											
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oga aaa gga cag Arg Lys Gly Gln 50			oca gas see atg Pro Asp Pro Met 60								
toc ott gad aag Ser Leu Asp Lys 65											
utg ota gaa gag Leu Leu Glu Glu											
ota ood aad tat Leu Pro Asm Tyr 100				Ala Leu							
ggc ctg cgt cta Gly Leu Arg Leu 115											
acg stg agg tts Thr Leu Arg Phe 130											
ggo gtg gag ota Gly Val Glu Leu 145											
igt gto agg tad Ely Val Arg Tyr			dag ggt oto ttt Gir Gly Leo Phe								

Fig. and the fine are the size of a set to the size of a size difference 4.4° . Were Three for Arit Three for Arit Met. Asposite User Arit Mal. Three fly Lys

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geaageatga eggetetgtg tteggt	gtee ggtaetttas	ctgtgccccg aggcaegggg	881
totttgcacc ageatotogt atccag	agga tiggiggati	cactgatese estagaagasa	941
gtgttggage aaaaaaagtg catcaa	gtya caatgacaca	goddaaasgo adottoasaa	1001
cagteeggae eecaaaggae attgea	tcag agaactctat	ctccaggtta ctcttctgct	1061
gctggtttcc ttggatgctg agggcg	gaga tgcagtotta	gagacetgga tacetgacae	1121
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cocattatta acagatoree cargae	gact cocccaaata	cagaceteat gttaceceaa	1301
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<211> 267

<212> PRT

<213> Rattus sp.

<400> 57

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Ash His Gly Ser Ala Leu His Ile Ala Ala Ser Ash Leu Cys Leu Gly
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Ala Ala Lys Cys Leu Leu Glu His Gly Ala Asn Pro Ala Leu Arg Asn 35 40 45

Arg Lys Gly Gln Val Pro Ala Glu Val Val Pro Asp Pro Met Asp Met 50 60

Ser Leu Asp Lys Ala Glu Ala Ala Leu Val Ala Lys Glu Leu Arg Thr 65 70 75 80

Leu Leu Glu Glu Ala Vai Pro Leu Ser Cys Thr Leu Pro Lys Val Thr
85 95

Deu Pro Asr Tyr Asp Ash Val Pro 31y Ash Deu Met Leu Jen Ala Leu 100 - 105 - 117

Gly Leu Arg Leu Gly Asp Arg Val Leu Leu Asp Gly Gln Lys Thr Gly 115 120 125

Thr Leu Arg Phe Cys Gly Thr Thr Glu Fhe Ala Ser Gly Gln Trp Val 130 149

Mal Ser Lys Mal Ser Lys Ala Mal Asp Ala Ero Ero Wer Web Ma. Thr

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                                                              Atty. Docket No. MNI-070CP4
Rhodes, Kenneth et al.
Cer Thi Fr. Ard Thi Ern And Met. Asy Ene. On And Mal Thi Cly Llys
Sly Ark Ark Slid His Lys Sly Lys Lys Lys Cer Erk Cer Cer Erk Cer
Lig
Leu Gly Ser Leu Gln Gin Arg Glu Gly Ala Lys Ala Glu Val Gly Asp
Gln Val Leu Val Ala Gly Gln Ash Arg Ash Cys Ala Phe Leu Trp Glu
                                      250
Asp Arg Leu Cys Ser Arg Leu Leu Val Trp His
           260
                        265
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<213≥ Rattus sp.</pre>
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get gad tot acc tot aga tgg got gag god oto aga gas ato tot ggt
Ala Asp Ser Thr Ser Arg Trp Ala Glu Ala Leu Arg Gli Ile Ser Gly
age tha get gaa and don goa gan agn gga had don goa had din ggh
Arg Leu Ala Glu Met Pro Ala Asp Ser Gly Tyr Fro Ala Tyr Leu Gly
god oga otg got tot the tat gag oga god age aga gtg aaa tgt ott
Ala Arg Leu Ala Ser Phe Tyr Glu Arg Ala Gly Arg Val Lys Cys Leu
gga aac oot gag aga gaa ggg agt gto ago att gta gga goa gtt tot
Gly Asn Pro Glu Arg Glu Gly Ser Val Ser Ile Val Gly Ala Val Ser
one not got got get tit tot get one gud and tot got ect oug gyt
Fro Pri Gly Gly Asp The Sor Asp Pro Val Thr Sor Ale Thr Low Gly
61
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	gtt ca; Val Glr	Phe	Gly	Leu	Asp	Lys	Lys	Leu	Ala	Gln	Arg	293
	tto ou Pho Pr					-						કું ક∤

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acc stg gag gta dea aga ett ats gas dat der tit tit til til til til til til til til
Gly Tyr Thr Pro Tyr Asp Arg Fhe Cys Pro Fhe Tyr Lys Thr Val Gly 180 atg ctg too aac atg att too tto tat gar atg gcc ogc ogg gct gtg 624 Met Leu Ser Ash Met Ile Ser Phe Tyr Asp Met Ala Arg Arg Ala Val 195 200 205
Met Leu Ser Ash Met Ile Ser Phe Tyr Asp Met Ala Arg Arg Ala Val 195 200 205 gag abo aco geo cag agt gao aat aag ato aca tgg too att ato egt 672
210 215 220
gag cad atg ggg gag att oto tat aaa ott too too atg aaa tto aag 720 Glu His Met Gly Glu Ile Leu Tyr Lys Leu Ser Ser Met Lys Phe Lys 230 235 240
gat coa gtg aag gat gge gag gea aag ate aag gee gae tae gea eag 768 Asp Pro Val Lys Asp Gly Glu Ala Lys Ile Lys Ala Asp Tyr Ala Gln 245 250 255
ctt ctt gaa gat atg cag aac gca ttc cgt agc ctg gaa gat Leu Leu Glu Asp Met Gln Asn Ala Phe Arg Ser Leu Glu Asp 260 265 270
tagaactgtg acttototoc tootottoog cagotoatat gtgtatattt tootgaattt 870
ctdateteda aceettiget tedatatigi geagettiga gaetagiged tegigegite 930
togttoattt tgotgittot tiggtaggio tiataaaaca cacattooig igotoogoig 990
totgaaggag otootgacot ttgtotgaag tggtgaatgt agtgoatatg atacacagtg 1050
taacatacac attgtaacat atacgttotg taaacttgta fqtaaqqtga otacccctto 1110
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gttgagtaac cattttgcag gaagtatttc catttaaaaa acaaaaagatt aatgttccaa 1290 -
ttatttgtag ottococagt atcaatbagg abtqtttgtg goguaettgg maadtattt: 1380
gtttttootaa pagaogtttg paaggotgaa ngtaatagat aaarnagtri inintotgaaag 1410.
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Ala Asp Ser Thr Ser Ard Trp Ala Glu Ala Leu Ard Glu Ile Ser Gly

^{4210 · 39}

<211> 270

<212> PRT

<213> Rattus sp.

^{4 10 - 59}

Fro Fro Mly Mly Asp Phe Ser Asp Fr. Val Thi Ser Ala Thr Leu Mly

The Mal Ain Mal Phe Dry Gly Leu Asy Lys Lys Leu Ala Hin Ary Lys

His the Pro Sor Val Ash Trp Leu Ile Ser Tyr Sor Lys Tyr Met Arg

Ala Leu Asp Glu Tyr Fyr Asp Lys His Phe Thr Glu Phe Val Pro Leu

Arg Thr Lys Ala Lys Glu Ile Leu Gln Glu Glu Asp Leu Ala Glu 135

lie Val Gir Leu Val Gly Lys Ala Ser Leu Ala Glu Thr Asp Lys Ile

Thr leu Glu Val Ala Lys Leu Ile Lys Asp Asp Phe Leu Gln Gin Asn

Gly Tyr Thr Pro Tyr Asp Arg Phe Cys Pro Phe Tyr Lys Thr Val Gly

Met Leu Ser Asm Met Ile Ser Phe Tyr Asp Met Ala Arg Arg Ala Val

Glu Thr Thr Ala Gln Ser Asp Asn Lys Ile Thr Trp Ser Ile Ile Arg

Glu His Met Gly Glu Ile Leu Tyr Lys Leu Ser Ser Met Lys Phe Lys 235

Asp Pro Val Lys Asp Gly Glu Ala Lys Ile Lys Ala Asp Tyr Ala Gln 250 245

Leu Leu Glu Asp Met Gln Asn Ala Phe Arg Ser Leu Glu Asp 260 265

k210+ 60

111 1450 22122 211A

N2132 Rattus sp.

<220>

<221> CDS

<222>(1)..(1053)

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For Arg Arg VII. Fr. Arg Viy Viy Lyc Fr. Fr. For Viy Avg Viy Let 4^{\pm}

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	ct.c Leu													240
	gca Ala	-			 -	_	-	-						288
	ada Pro													336
	gga Gly			_								-		384
	ccc Pro 130			_		_	_		_	_	_	,		432
	gtg Val													480
	cca Pro													528
	cgt Arg													576
	7a His													6.14
	acc Thr 210												aty Leu	· '_
ago Ser 225	gtq Val													720

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Cow only ogo mag ogo ogo gitg ogg ong ong ong gag ong tijt ogo mag Pro Leu Arg Gln Arg Arg Val Arg Pro Leu Gln Glu Leu Cys Arg Gln 305 - 310 - 315 - 320	160 1
ege ate gtg gee gee gtg ggt ege gag aac etg gea ege ate det eht. I Arg Ile Val Ala Ala Val Gly Arg Glu Ash Leu Ala Arg Ile Pro Leu 325 330 335	1008
aan bog gta oto ogt gad tab otg agt too tto obb tto bag ato. I Asn Pro Val Leu Arg Asp Tyr Leu Ser Ser Phe Pro Phe Gln Ile. 340 345 350	.053
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aattattatt attittetgg aaseaegtgg gagesetese egestaggte ggagggagtg l	.173
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daaadaaaaa aaaaaa 1	.489
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Ser Arg Arg Glin Er. Arg Gly Bly Bys Ero Ero Ser Gly Asp Gly Leu 35 40 45	

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Trp	Pro 133	Thr	Pro	Fro	Ala	Gly 135	Pro	Ser	Ser	Arg	Met 140	Val	Ala	Arg	Asn
Gln 145	Val	Ala	Ala	Asp	Asn 150	Ala	Ile	Ser	Pro	Ala 155	Ser	Glu	Pro	Arg	Arg 160
Arg	Pro	Glu	Pro	Ser 165	Ser	Ser	Ser	Ser	Ser 170	Ser	Ser	Pro	Ala	Ala 175	Pro
Ala	Arg	Pro	Arg 180	Pro	Cys	Pro	Val	Val 185	Pro	Ala	Pro	Ala	Pro 190	Gly	Asp
Thr	His	Fh0 195	Arg	Thr	Fhe	Arj	Ser 200	His	Ser	Asp	Tyr	Arg 205	Ara	Ile	Thr
Arg	Thr 210	Ser	Ala	Leu	Leu	Asp 215	Ala	Cys	Gly	Phe	Tyr 220	Trp	Gly	Pro	Leu
Ser 225	Val	His	Gly	Ala	His 230	Glu	Arg	Leu	Arg	Ala 235	Glu	Pro	Val	Gly	Thr 240
Phe	Leu	Val	Arg	Asp 245	Ser	Arg	Gln	Arg	Asr. 250	Cys	Phe	Phe	Ala	Leu 255	Ser
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Gly	Arg	Phe 275	His	Leu	Asp	Gly	Ser 280	Arg	Glu	Thr	Phe	Asp 285	Cys	Leu	Phe
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Pro 305	Leu	Ara	Gln	Arg	Arg 310	V-1	Arı	Fro	Leu	G1r. 315	Glu	Leu	Cys	Arı	Glr. 320
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				oga Arg 20											219
				gcc Ala											267
				ggc Gly											315
				atc Ile											363
				ccc Pro	_							-		_	411
				ggc Gly 100											459
				ctc Leu											507
				cag Gln											555
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Tyr Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe 65 70 75 80

Tyr Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg Leu Arg Ala 85 90 95

Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Asn Cys $100 \,$ $105 \,$ $110 \,$

Phe Phe Ala Leu Ser Val Lys Met Ala Ser Bly Pro Thr Ser Ile Art

Tal His The Sin Ala Sly Arg The His let Asp Gly For Arg Glu Thr 130 135 140

Phe Asp Cys Leu Phe Glu Leu Leu Glu His Tyr Val Ala Ala Pro Arg 145 - 150 - 150 - 150

Arg Met Leu Gly Ala Pro Leu Arg Gln Arg Arg Val Arg Fro Leu Gin

Ala Ara ile Erolies Am. Erolies Ara Ara Ara Tyrote Cole Med Ero Into

8.11 8 8.4 · _ 1 1 · · · 1111 / TNA Buller Rattus sp. 4.2237 3221 - CDS <222> (52)..(336) <400> 64 cttocaaaqa ctycaqogoo toaqqqooca qqtttoaaca qattottoaa a atq oca Met Pro 1 too caa atg gag cat goo atg gaa acc atg atg off aca tit cac agg Ser Gin Met Glu His Ala Met Glu Thr Met Met Lou Thr Phe His Arg tit goa yyn gaa aaa aab tao tty aha aay gay qab stg aga gtg sto Phe Ala Gly Glu Lys Ash Tyr Leu Thr Lys Glu Asp Leu Arg Val Leu 20 201 atg gaa agg gag tic cot jgg tit tig gaa aat caa aag gac cot cig Met Glu Arg Glu Phe Pro Gly Phe Leu Glu Asn Gln Lys Asp Pro Leu 35 4.7 get gtg gae aaa ata atg aaa gae etg gae eag tge ega gat gga aaa 249 Ala Val Asp Lys Ile Met Lys Asp Leu Asp Gln Cys Arg Asp Gly Lys gry ggo the dag ago thi bia toa ola gry gog ggg old ald att goa Val Gly Phe Gln Ser Phe Leu Ser Leu Val Ala Gly Leu Ile Ile Ala 70 tgo aat gad tat tit gia gia dad atg aag dag aag taggodaadt. 346 Cys Asn Asp Tyr Phe Val Val His Met Lys Gln Lys Lys 8.5 90 graychotry taccosacado ttgatgogto intotopoaty dggtbaacty aggaatotgo 406 ormantanto ontificações paticaduans intragrasat propriadatas valididas to Akk vaattogada aydägagaaa gaääaagttaa todaatgada gaggagdtti dgägttttät böb attytttykä toogyttyoo otoaataaay aaaytottii tiittaayti oogaaaaaaa 586

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His Artine Alt Hy the Lys Ash Tyr Lea Thr Lyc tha Asy Lea Art
Val bel Met (Hu Art Aug Ene Er - Hy Ene Deu (Hu Ach (Hh Lyc Acq
Pro Leu Ala Val Asp Lys Tie Med Lys Asp Leu Asp Sin Cys Ang Asp
Bly Lys Mal Gly Phe Gln Ser Phe Leu Ser Leu Mal Ala Gly Leu Ile
Ile Ala Cys Asn Asp Tyr Phe Val Val His Met Lys Gln Lys Lys
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gtt ggt äää tog tgo tta ttg ota dag ttt aca gad aag agg ttt dag
Val Gly Lys Ser Cys Leu Leu Eeu Gln Phe Thr Asp Lys Arg Phe Gln
dog gtg cat gad otd ada att ggt gta gag tit ggt got oga atg ata
Pro Val His Asp Leu Thr Ile Gly Val Glu Phe Gly Ala Arg Met Ile
                              4.0
acc att gat ggg aaa cag ata aaa ete cag ate tgg gat aca gca ggg
                                                                      192
Thr Ile Asp Gly Lys Gln Ile Lys Leu Gln Ile Trp Asp Thr Ala Gly
                                                60
dag gag too bit ogt tot ato aba agu toa tat tan aga ggt gna gog
Bin Bin den Ehe Ang Den Ilo Thr Ang Dec Tyr Tyr Ang Biy Ala Ala
ggg got tha cta gtg tat gat att ava agg aga gab acg tto aac cac
Gly Ala Leu Leu Val Tyr Asp Ile Thr Arg Arg Asp Thr Phe Asn His
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		tgc Cys	tgc Cys	tga												639
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	D≻ 6° Ala		Ala	Tyr 5	Leu	Phe	Lys	Туг	ile 10	Ile	Ile	Gly	Asp	Thr	Gly	
Vāl	Gly	Lys	Ser 20	Cys	Leu	Leu	Leu	Gln 25	Phe	Thr	Asp	Lys	Arg 30	Phe	Gln	
Pro	Val	His 35	Asp	Leu	Thr	Ile	Gly 40	Val	Glu	Phe	Gly	Ala 45	Arg	Met	Ile	
Thr	11e 50	Asp	Gly	Lys	Gln	Ile 55	Lys	Leu	Gln	Ile	Trp 60	Asp	Thr	Ala	Gly	
Gln 65	Glu	Ser	Phe	Arg	Ser 70	Ile	Thr	Arg	Ser	Tyr 75	Tyr	Arg	Gly	Ala	Ala 80	
Gly	Als	I++1	Leu	Vai Es	Tyr	Ast.	11.9	Thi	Ar i	Arı	Ast	Thi	11.44	Asn 95	His	
Leu	Thr	Thr	Trp 100	Leu	Glu	Asp	Ala	Arg 105	Gln	His	Ser	Asn	Ser 110	Asn	Met	
Val	Tle	Met 115	Leu	Ile	Gly	Asn	Lys 120	Ser	Asp	Leu	Glu	Ser 125	Arg	Arg	Glu	
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Ala The Age 196	Ala Der		Hly Ast. L ^{ate}	alm aly	ary air.	Rin Ala	317
Gly Gly Cys 210	Cys						
<pre></pre>	s sp.						
<220> <221> CDS <222> (1)	(813)						
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gag tat caa Glu Tyr Gln							
gaa act ggt Glu Thr Gly 35							
gag aag gat Glu Lys Asp 50							
tta cag age leu Glh Ser 65							
gee stg aat Ala beu Asn							
ann ght ant Omr Val lie							
gaa ado tgg 319 Thr Trp 115							

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Ash Trp Lys Sin Glu Leu Val Ash Hin Lys Asp Cys Pro Tyr Met 187 - 145 - 145	
goa tac aaa otg git act gic aag tic aag tyg tyg gyc tig cag Ala Tyr Lys Leu Val Thr Val Lys Phe Lys Trp Trp Gly Leu Gln 195 200 205	
aga gtg gag aac ttt ata cat aag caa gag aag egt etg tit aca Lys Val Glu Asn Phe Ile His Lys Gln Glu Lys Arg Leu Phe Thr 210 215 220	
tit dad agg dag otg tid tgt tgg dti gat aaa tgg gti gat dtg Ble His Ary Gin Leu Phe Cys Trp Leu Asp Lys Trp Val Asp Leu 230 - 230	
atg gat gas att ogg agg atg gaa gaa gag acg aag aga cag otg Met Asp Asp Ile Arg Arg Met Glu Glu Glu Thr Lys Arg Gln Leu 245 - 250 - 255	-
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	getgae 120
ranjaactig qaaqggottq aaatqatayn Ayttotgano qtoattqtq; itti:	
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	tqttaa 180 treet 240
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attattigas teinttiggin tilattikasin eintitalisa istaanii ir eela gyagatggon antytoaggo arbigootga ijooottijag ottotygasi ooda atttaccaag asagagotto agatoottta cagaggattt aagaacgast good	tqttaa 180 tgiltaa 180 gagdaa see gagtgg 360 adam 1 420
attattigas teinttiggin tientmaast eintitasia seradori ir eesa gyajatggot artigidaggo ardigidotiga jipodttijag ettotiggaaj edda atttaddaag adagagotto agateettta dagaggattt aagaadgaat good tirnittaat gaagaaadot tiraaagagat thadtogram tirittiinin anga	tgitaa 180 triin 240 gagdaa bee dagtgg 360 adant 1420

tiggism tim to a shatadat maadh tigath da laadh tidh sa laadat da callah ta callah tidh $^{2\pi}$ intornational or interpretable and togather all a mediational to a fat coefficient in reachagal má maaan dhigaal imembi maan hiandeedhaaad biriddag maan ina mottoag biladastig oo ilib cagoti pa na intgalagrata ittitgolaalan liaapottogoti otalatatalaa golaat koosa 1960 aaagattiga geeteetrage tabaaaattig vateestebb ataatgoode tgagttedig 1020 ggatgttota abtoatttba tabtotgtga atattoaaaa gtaatagaat biggoatata 10%0 gttttattda ttoottagee atgggattat tyaggottte acatatoagt gattttaaaa 1140 taccagtgtt tittgctact cattigtatg tattcagtoc taggattitg aatggttitc 1200 taatatacty acatotycat ttaatttoca yääättääät täättttoat ytotyäätyö 1260tytäättinna tittatatast ittaaytaaan aaataayatti astadaatta aacabatayt 1320tocagittot atggeettoa etteceacet totattagaa attuattita tetggiatti 13×0 ttaaabatit aaaaatttat balbagalal vagbatatgo blaattatgo blaatgalaab 1440 ttaataagoa tttaatttto catoataoat tatagtoaag gootatatao tatatataat $1500\,$ tttggatttg tttaatotta caggetgttt tocattgtat catcaagtgg aagttcaaga 1560 eggeateaaa caasacaagg atgtttacag acatatgeaa agggteagga tatetateet 1610 ccagtatatg ttaatgetta ataacaagta ateetaacag cattaaagge caaatetgte 16:0 ctotttocco tgacttoctt acagcatgtt tatattacaa gocattoagg gacaaagaaa 1740 cottgactae cocaetytet actaggaaca aacaaacage aagcaasatt cactttgaaa 1800 geaceagtgg ttecattaca ttgacaacta ctaccaagat tcagtagaaa ataagtgetc 1860 aacaactaat ccagattaca atatgattta gtgcatcata aaattccaac aattcagatt 1920 attititaato acotoagoda caactgiaaa gittgocacat tactaaagad acacacatog 1980 topotimitti, qtagaaatat kabaaaaga mi qalquyota i ayaaqgagga laatitiy maab 2040 ogobito pra la raabaalatin laggoatoriati timiggogoa plaataggaog on kalaakpoog will coorgetats accaptyrag aaattaagag tagtacaata catgtacast gaaatttgss 2160 atogogtgit tgigtaaach caatgigcas attitgiatt toaaaaagaa aasataaaag 2220 1.00 radusaturius igititairis nii timaaaadaa aa aadaadaada uga s

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Leading Wall Lys Lea Lea than the High Lea Lie tha Alas thy Lea Giu Asp Ser Val (Hu Asp (Hu Leo Olu Met Ala Thr Val Arg His Arg Pro Glu Ala Leu Glu Leu Leu Glu Ala Gln Ser Lys Phe Thr Lys Lys Glu Leu Gir Tie Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu Glu Thr Phe Lys Glu Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Thr Thr Tyr Ala His Phe Leu Phe Ash Ala Phe Asp Thr Asp His Ash Gly Ala Val Ser Phe Gla Asp Phe Ile Lys Gly Leu Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu Asn Trp Ala Phe 135 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr 170 Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Val Val Thr Ile Asp Glu Phe 200 Ile Glu Ser Cys Gln Lys Asp Glu Asn Ile Met Arg Ser Met Gln Leu 215 Phe Glu Ash Val Ile 4.016 × 01 <211> 2259 <212> DNA <213> Simian sp. K400 × 71 gtogacagae quocotygoo gytygaeten tgaytettae tehtgeahee tgegroocea 60 of off discours and read the consequences of the contract of the sequences of the design of the contract of th

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adinaaatitta oo haadaada gotti hadat oo mitta magad datittaadaa oogaat dinnin oo agrantigttig tilaarigaada aabinti haaa pagatttäbt birantiisti toba tagaga 455 gaint staigeal catuat grace ittet et de tribit i laat de dette at anddaceur Galatida de C qhigagittog algarittuat baaaqgi min i wattitgo tinggugan agtaraagaa 541 Asacticaatt gggcatttaa totgtatjat ataaataaag atjjitaisat caotaaagaj 600 gaaatgottg atataatgaa agcaatahac gacatgatgg gtaaatgtac atatootgto 660 ctcaaagaag atgcacccag acaacacqtc qaaacatttt ttcagaaaat ggacaaaaat 720 aaagatgggg ttgttaccat agatgagtto attgaaagct gccaaaaaga tgaaaacata 780 atgogotoca tycagotott tyaaaaatyty atttaactty toaactayat cotyaatoca 840 abagacaaat gtgaactatt otaccaccot taaagtogga gotaccactt ttagcataga 900 tigotoagot tgacactgaa goatattuig cuaacaagot tigitituat alaaagcaat 960 chochananga ittgagtito tongttatan htttgchtoc titochinat gedaetgagt 1020 teatgggatg ttetgaetea titteataete tgtgaatatt caaaagtaat agaatetgge 1080 atatagtitt attgaticet tagecatggg attattgagg etticacata teagtgattt 1140 taaaaatacca gtgttttttg ctactcattt gtatgtattc agtcctagga ttttgaatgg 1200 ttttotaata taotgacato tgoatttaat ttocagaaat taaattaatt ttoatgtotg 1260 aatgotgtaa ttodatttat ataotttaag taaacaaata agattactas aattaaacac 1920 atagttodag tittotatiggo ottoacttod cacottotat tagaaattaa tittatotigg 1380 tattittaaa catttaaaaa titatcatca gatatcagca tatgcctaat tatgcctaat 1440 gaaacttaat aagcatttaa titteeatea tacattatag teaaggeeta tataetatat 1500 ataatittigg attigtitaa tottacagg: tytittocat tylatoatoa agiggaagti 1560 haayanggba tidaaahaaaa baadgaturt hahayabata tipbaaayuun haggatatot $1620\,$ atuntuudagt alatyttaat yottaataan aaytaatoot aauraynitta aagyncaaat lemi ctytootott toocotyact toottacago atytttatat tacaagocat toagggacaa 1740 agaaacettg actaccecae tgtetaetag qaacaaacaa acagcaagca aaatteactt 1800 t dasagnand lagt ggtt intal tid fatigan las tha bibabb laagst bragt lagtalaasa ist400 tigger at high light of the last of hastiget disability to distint have last excessed in high

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..211 - ...

<212> FRT

<213> Simian sp.

<400 × 72

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The Lys Giu Arg Leu Met Lys Leu Leu Pro Cys Ser Ala Ala Lys Thr 35

Ser Ser Pro Ala Ile Gin Ash Ser Val Giu Asp Giu Leu Giu Met Ala 50 60

Thr Val Arg His Arg Pro Glu Ala Leu Glu Leu Leu Glu Ala Gln Ser 65 73 75 80

Lys Phe Thr Lys Lys Glu Leu Gln Ile Leu Tyr Arg Gly Phe Lys Asn 85 90 95

Glu Cys Pro Ser Gly Val Val Asn Glu Giu Thr Phe Lys Glu Ile Tyr 100 105 110

Ser Gln Phe Phe Pro Gln Gly Asp Ser Thr Thr Tyr Ala Eis Phe Leu 115 120 125

Phe Asn Ala Phe Asp Thr Asp His Asn Gly Ala Val Ser Fhe Glu Asp 130 135 140

Phe Ile Lys Gly Leu Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys 145 150 150 160

Leu Ash Try Ala Eho Ash Leu Tyr Asp IIe Ash Lys Asp Ely Tyr IIe 165

Thr lys 311 Giu Met Leu Asp lle Met Lys Ala I.e Tyr Asp Met Met 181 - 198

Gly Lys Cys Thr Tyr Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His

Val Glu Thr Phe Phe Gln Lys Met Asr Lys Ash Lys Asp Gly Val Val

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cull + 0s
cull + 1
cull + EAT
cull + Simian sp.
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